PRELIMINARY

MAR 24 1971

C

LEA LOUREIRO ENGINEERING ASSOCIATES

ITEMS PERTAINING TO A DETERMINATION OF WASTEWATER FLOWS & QUANTITIES

Engelhard - Plainville Plant

I. Facilities and Discharges that should be Collected for Wastewater Treatment:

A. Bldg. #1:

1. Wire Cleaning Room - Degreaser pit sump pump. Presently discharges drainage from pit and hot condensate to a floor drain in Bldg. 4 which drains to an underfloor dry well.

2. Boiler Room - Sump pumps (2) in floor slab. Presently discharge floor drainage and flood waters contaminated with oil to a storm drain trench located outside the entrance door to the Carpenter Shop. Flooding of the Boiler Room floor occurs when the wastewater holding tank overflows because of failure of the wastewater pumps.

B. Bldg. #2:

1. Loma and Lo Beck casting pits. On occasion, these pits must be pumped out to repair the casting equipment. The water would be contaminated with metals, dirt, etc. and oil, particularly if a leak has developed in a hydraulic system.

2. Laboratory Sink Wastes - dilute contaminated wastewater may presently discharge to a septic tank type disposal system located under the parking lot at the South-East corner of the Plant, however, this has not been verified.

3. Wastewater Holding Tank No. 1 in tunnel. In order to keep the contaminated wastewater received in Tank No. 1 out of the cooling water system at Tower #2, can the valve remain closed in the line interconnecting this tank with cooling water Return Tank #2? As a result of this, additional make-up water may be required to be added to return Tank No. 2, which may eventually unbalance the cooling water system and cause any excess water to overflow from the return tank into wastewater holding Tank No. 1.

C. Bldg. #7:

1. Grease Trap for the cooling water from the Hot Rolling Mill. The pit for the rolling mill cooling water oil separator tanks has a sump pump which presently discharges to the surface of the ground outside the building wall. Failure of the cooling water return pumps causes the tanks to overflow when the rolling mill is operating, and when the pit floods, the water is contaminated with oil.